

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-20721-1

Client Project/Site: Canton Drop Forge

For:

TRC Environmental Corp-Payne Firm

1382 West Ninth Street

Cleveland, Ohio 44113

Attn: Kathleen Teuscher

Patrick O'Meara

Authorized for release by:

2/14/2013 3:25:32 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

⊗	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Job ID: 240-20721-1

Laboratory: TestAmerica Canton

Narrative

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CASE NARRATIVE

Client: TRC Environmental Corp-Payne Firm

Project: Canton Drop Forge

Report Number: 240-20721-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/06/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.9 C.

TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 02/07/2013 and analyzed on 02/12/2013.

No difficulties were encountered during the VOCs analysis. All quality control parameters were within the acceptance limits.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 02/07/2013, prepared on 02/13/2013 and analyzed on 02/14/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analysis. All quality control parameters were within the acceptance limits.

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2/14/2013

Case Narrative

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Job ID: 240-20721-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

TCLP METALS (ICP)

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/ 6010B. The samples were leached on 02/07/2013, prepared on 02/08/2013 and analyzed on 02/11/2013.

Barium and Lead were detected in method blank LB 240-74672/1-C at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

TCLP MERCURY

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 02/07/2013, prepared on 02/08/2013 and analyzed on 02/11/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

FLASHPOINT

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for flashpoint in accordance with EPA SW-846 Method 1010. The samples were analyzed on 02/08/2013.

No difficulties were encountered during the flashpoint analysis. All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for total and amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 02/12/2013.

No difficulties were encountered during the cyanide analysis. All quality control parameters were within the acceptance limits.

SULFIDE

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 02/07/2013.

No other difficulties were encountered during the sulfide analysis. All other quality control parameters were within the acceptance limits.

pH

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were analyzed on 02/07/2013.

No difficulties were encountered during the pH analysis. All quality control parameters were within the acceptance limits.

PAINT FILTER

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for paint filter in accordance with EPA SW-846 Method 9095A. The samples were analyzed on 02/11/2013.

No difficulties were encountered during the paint filter analysis. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Sample IA07-SS03/W/0.0-1.0 (240-20721-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 02/06/2013.

No difficulties were encountered during the % solids analysis. All quality control parameters were within the acceptance limits.

Method Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method	Method Description	Protocol	Laboratory
8280B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
6010B	Metals (ICP)	SW846	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL NC
9012A	Cyanide, Total and/or Amenable	SW846	TAL NC
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL NC
9045C	pH	SW846	TAL NC
9095A	Paint Filter	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

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Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-20721-1	IA07-SS03/N//0.0-1.0	Solid	02/06/13 09:20	02/06/13 12:10



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Detection Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Client Sample ID: IA07-SS03/W/0.0-1.0

Lab Sample ID: 240-20721-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.0027	J	0.040	0.00075	mg/L	1	8270C	TCLP	
Arsenic	0.021	J	0.50	0.0032	mg/L	1	6010B	TCLP	
Barium	0.18	J B	10	0.00067	mg/L	1	6010B	TCLP	
Chromium	0.0036	J	0.50	0.0022	mg/L	1	6010B	TCLP	
Lead	0.016	J B	0.50	0.0019	mg/L	1	6010B	TCLP	
Silver	0.0040	J	0.50	0.0022	mg/L	1	6010B	TCLP	
Flashpoint	>180		1.00	1.00	Degrees F	1	1010	Total/NA	
corrosivity by pH	6.97		0.100	0.100	SU	1	9045C	Total/NA	
Free Liquid	NEG		0.10	0.10	NONE	1	9095A	Total/NA	

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Client Sample ID: IA07-SS03/W/0.0-1.0

Date Collected: 02/06/13 09:20

Date Received: 02/06/13 12:10

Lab Sample ID: 240-20721-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.025	0.0095	mg/L			02/12/13 19:41	1
1,2-Dichloroethane	ND		0.025	0.011	mg/L			02/12/13 19:41	1
2-Butanone (MEK)	ND		0.25	0.029	mg/L			02/12/13 19:41	1
Benzene	ND		0.025	0.0065	mg/L			02/12/13 19:41	1
Carbon tetrachloride	ND		0.025	0.0065	mg/L			02/12/13 19:41	1
Chlorobenzene	ND		0.025	0.0075	mg/L			02/12/13 19:41	1
Chloroform	ND		0.025	0.0080	mg/L			02/12/13 19:41	1
Tetrachloroethene	ND		0.025	0.015	mg/L			02/12/13 19:41	1
Trichloroethene	ND		0.025	0.0085	mg/L			02/12/13 19:41	1
Vinyl chloride	ND		0.025	0.011	mg/L			02/12/13 19:41	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95			80 - 121				02/12/13 19:41	1
4-Bromofluorobenzene (Surr)	90			70 - 124				02/12/13 19:41	1
Toluene-d8 (Surr)	100			90 - 115				02/12/13 19:41	1
Dibromofluoromethane (Surr)	99			84 - 128				02/12/13 19:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0040	0.00034	mg/L			02/13/13 10:38	02/14/13 12:37
2,4,5-Trichlorophenol	ND		0.020	0.00030	mg/L			02/13/13 10:38	02/14/13 12:37
2,4,6-Trichlorophenol	ND		0.020	0.00080	mg/L			02/13/13 10:38	02/14/13 12:37
2,4-Dinitrotoluene	ND		0.020	0.00027	mg/L			02/13/13 10:38	02/14/13 12:37
Hexachlorobenzene	ND		0.020	0.00010	mg/L			02/13/13 10:38	02/14/13 12:37
Hexachlorobutadiene	ND		0.020	0.00027	mg/L			02/13/13 10:38	02/14/13 12:37
Hexachloroethane	ND		0.020	0.00080	mg/L			02/13/13 10:38	02/14/13 12:37
3 & 4 Methylphenol	0.0027	J	0.040	0.00075	mg/L			02/13/13 10:38	02/14/13 12:37
2-Methylphenol	ND		0.0040	0.00080	mg/L			02/13/13 10:38	02/14/13 12:37
Nitrobenzene	ND		0.0040	0.000040	mg/L			02/13/13 10:38	02/14/13 12:37
Pentachlorophenol	ND		0.040	0.0024	mg/L			02/13/13 10:38	02/14/13 12:37
Pyridine	ND		0.020	0.00035	mg/L			02/13/13 10:38	02/14/13 12:37
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71			27 - 110				02/13/13 10:38	02/14/13 12:37
2-Fluorophenol (Surr)	70			10 - 110				02/13/13 10:38	02/14/13 12:37
2,4,6-Tribromophenol (Surr)	99			15 - 110				02/13/13 10:38	02/14/13 12:37
Nitrobenzene-d5 (Surr)	62			27 - 110				02/13/13 10:38	02/14/13 12:37
Phenol-d5 (Surr)	53			20 - 110				02/13/13 10:38	02/14/13 12:37
Terphenyl-d14 (Surr)	65			38 - 110				02/13/13 10:38	02/14/13 12:37

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.50	0.0032	mg/L			02/08/13 11:42	02/11/13 22:47
Barium	0.18	J B	10	0.00067	mg/L			02/08/13 11:42	02/11/13 22:47
Cadmium	ND		0.10	0.00066	mg/L			02/08/13 11:42	02/11/13 22:47
Chromium	0.0036	J	0.50	0.0022	mg/L			02/08/13 11:42	02/11/13 22:47
Lead	0.016	J B	0.50	0.0019	mg/L			02/08/13 11:42	02/11/13 22:47
Selenium	ND		0.25	0.0041	mg/L			02/08/13 11:42	02/11/13 22:47
Silver	0.0040	J	0.50	0.0022	mg/L			02/08/13 11:42	02/11/13 22:47

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Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Client Sample ID: IA07-SS03/W/0.0-1.0

Lab Sample ID: 240-20721-1

Date Collected: 02/06/13 09:20

Matrix: Solid

Date Received: 02/06/13 12:10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		02/08/13 16:00	02/11/13 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		1.00	1.00	Degrees F		02/08/13 12:00	02/08/13 12:00	1
Cyanide, Total	ND		0.58	0.12	mg/Kg	‡	02/12/13 11:08	02/12/13 17:02	1
Sulfide	ND		33	24	mg/Kg	‡	02/07/13 10:17	02/07/13 14:46	1
corrosivity by pH	6.97		0.100	0.100	SU		02/07/13 15:05	02/07/13 15:05	1
Free Liquid	NEG		0.10	0.10	NONE		02/11/13 07:50	02/11/13 07:50	1

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Surrogate Summary

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (90-115)	DBFM (84-128)
LCS 240-75079/5	Lab Control Sample	98	100	104	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surf)

BFB = 4-Bromofluorobenzene (Surf)

TOL = Toluene-d8 (Surf)

DBFM = Dibromofluoromethane (Surf)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (90-115)	DBFM (84-128)
240-20721-1	IA07-SS03/W/0.0-1.0	95	90	100	99
LB 240-74670/1-A MB	Method Blank	95	93	101	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surf)

BFB = 4-Bromofluorobenzene (Surf)

TOL = Toluene-d8 (Surf)

DBFM = Dibromofluoromethane (Surf)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (27-110)	2FP (10-110)	TBP (15-110)	NBZ (27-110)	PHL (20-110)	TPH (38-110)
LCS 240-75177/4-A	Lab Control Sample	64	73	85	59	58	66
MB 240-75177/3-A	Method Blank	67	79	94	65	63	72

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surf)

2FP = 2-Fluorophenol (Surf)

TBP = 2,4,6-Tribromophenol (Surf)

NBZ = Nitrobenzene-d5 (Surf)

PHL = Phenol-d5 (Surf)

TPH = Terphenyl-d14 (Surf)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (27-110)	2FP (10-110)	TBP (15-110)	NBZ (27-110)	PHL (20-110)	TPH (38-110)
240-20721-1	IA07-SS03/W/0.0-1.0	71	70	99	62	53	65

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surf)

2FP = 2-Fluorophenol (Surf)

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Surrogate Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)



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QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-75079/5

Matrix: Solid

Analysis Batch: 75079

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,1-Dichloroethene	1.00	0.980		mg/L		98	71 - 133
1,2-Dichloroethane	1.00	1.01		mg/L		101	81 - 114
Benzene	1.00	1.00		mg/L		100	84 - 120
Carbon tetrachloride	1.00	0.899		mg/L		90	54 - 122
Chlorobenzene	1.00	1.02		mg/L		102	86 - 111
Chloroform	1.00	0.964		mg/L		96	87 - 123
Tetrachloroethene	1.00	1.05		mg/L		105	79 - 134
Trichloroethene	1.00	1.04		mg/L		104	78 - 130
Vinyl chloride	1.00	0.797		mg/L		80	56 - 111
Surrogate		LCS	LCS	Limits			
		%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Sur)		98		80 - 121			
4-Bromofluorobenzene (Sur)		100		70 - 124			
Toluene-d8 (Sur)		104		90 - 115			
Dibromofluoromethane (Sur)		102		84 - 128			

Lab Sample ID: LB 240-74670/1-A MB

Matrix: Solid

Analysis Batch: 75079

Client Sample ID: Method Blank
 Prep Type: TCLP

Analyte	Result	Qualifier	MB		D	Prepared	Analyzed	Dil Fac
			RL	MDL				
1,1-Dichloroethene	ND		0.025	0.0095	mg/L		02/12/13 15:02	1
1,2-Dichloroethane	ND		0.025	0.011	mg/L		02/12/13 15:02	1
2-Butanone (MEK)	ND		0.25	0.029	mg/L		02/12/13 15:02	1
Benzene	ND		0.025	0.0065	mg/L		02/12/13 15:02	1
Carbon tetrachloride	ND		0.025	0.0065	mg/L		02/12/13 15:02	1
Chlorobenzene	ND		0.025	0.0075	mg/L		02/12/13 15:02	1
Chloroform	ND		0.025	0.0080	mg/L		02/12/13 15:02	1
Tetrachloroethene	ND		0.025	0.015	mg/L		02/12/13 15:02	1
Trichloroethene	ND		0.025	0.0085	mg/L		02/12/13 15:02	1
Vinyl chloride	ND		0.025	0.011	mg/L		02/12/13 15:02	1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)		95		80 - 121			02/12/13 15:02	1
4-Bromofluorobenzene (Sur)		93		70 - 124			02/12/13 15:02	1
Toluene-d8 (Sur)		101		90 - 115			02/12/13 15:02	1
Dibromofluoromethane (Sur)		100		84 - 128			02/12/13 15:02	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-75177/3-A

Matrix: Solid

Analysis Batch: 75288

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 75177

Analyte	Result	Qualifier	MB		D	Prepared	Analyzed	Dil Fac
			RL	MDL				
1,4-Dichlorobenzene	ND		0.0040	0.00034	mg/L		02/13/13 10:38	1
2,4,5-Trichlorophenol	ND		0.020	0.00030	mg/L		02/13/13 10:38	1

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-75177/3-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 75288

Prep Batch: 75177

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,6-Trichlorophenol	ND		0.020	0.00080	mg/L		02/13/13 10:38	02/14/13 10:10	1
2,4-Dinitrotoluene	ND		0.020	0.00027	mg/L		02/13/13 10:38	02/14/13 10:10	1
Hexachlorobenzene	ND		0.020	0.00010	mg/L		02/13/13 10:38	02/14/13 10:10	1
Hexachlorobutadiene	ND		0.020	0.00027	mg/L		02/13/13 10:38	02/14/13 10:10	1
Hexachloroethane	ND		0.020	0.00080	mg/L		02/13/13 10:38	02/14/13 10:10	1
3 & 4 Methylphenol	ND		0.040	0.00075	mg/L		02/13/13 10:38	02/14/13 10:10	1
2-Methylphenol	ND		0.0040	0.00080	mg/L		02/13/13 10:38	02/14/13 10:10	1
Nitrobenzene	ND		0.0040	0.000040	mg/L		02/13/13 10:38	02/14/13 10:10	1
Pentachlorophenol	ND		0.040	0.0024	mg/L		02/13/13 10:38	02/14/13 10:10	1
Pyridine	ND		0.020	0.00035	mg/L		02/13/13 10:38	02/14/13 10:10	1
MB MB		Surrogate		%Recovery	Qualifier	Limits	Prepared		Dil Fac
2-Fluorobiphenyl (Sur)		67		27 - 110			02/13/13 10:38	02/14/13 10:10	1
2-Fluorophenol (Sur)		79		10 - 110			02/13/13 10:38	02/14/13 10:10	1
2,4,6-Tribromophenol (Sur)		94		15 - 110			02/13/13 10:38	02/14/13 10:10	1
Nitrobenzene-d5 (Sur)		65		27 - 110			02/13/13 10:38	02/14/13 10:10	1
Phenol-d5 (Sur)		63		20 - 110			02/13/13 10:38	02/14/13 10:10	1
Terphenyl-d14 (Sur)		72		38 - 110			02/13/13 10:38	02/14/13 10:10	1

Lab Sample ID: LCS 240-75177/4-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 75288

Prep Batch: 75177

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result							
1,4-Dichlorobenzene	0.0800	0.0675			mg/L		84	16 - 110	
2,4,5-Trichlorophenol	0.0800	0.0682			mg/L		85	35 - 110	
2,4,6-Trichlorophenol	0.0800	0.0678			mg/L		85	36 - 110	
2,4-Dinitrotoluene	0.0800	0.0599			mg/L		75	49 - 110	
Hexachlorobenzene	0.0800	0.0517			mg/L		65	44 - 110	
Hexachlorobutadiene	0.0800	0.0500			mg/L		63	35 - 110	
Hexachloroethane	0.0800	0.0505			mg/L		63	34 - 110	
3 & 4 Methylphenol	0.160	0.133			mg/L		83	38 - 110	
2-Methylphenol	0.0800	0.0656			mg/L		82	36 - 114	
Nitrobenzene	0.0800	0.0465			mg/L		58	43 - 110	
Pentachlorophenol	0.0800	0.0613			mg/L		77	10 - 122	
Pyridine	0.0800	0.0539			mg/L		67	34 - 110	
LCS LCS		Surrogate		%Recovery	Qualifier	Limits			
2-Fluorobiphenyl (Sur)		64		27 - 110					
2-Fluorophenol (Sur)		73		10 - 110					
2,4,6-Tribromophenol (Sur)		85		15 - 110					
Nitrobenzene-d5 (Sur)		59		27 - 110					
Phenol-d5 (Sur)		58		20 - 110					
Terphenyl-d14 (Sur)		66		38 - 110					

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-74761/2-A

Matrix: Solid

Analysis Batch: 74877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.0032	mg/L		02/08/13 11:42	02/11/13 21:41	1
Barium	ND		10	0.00067	mg/L		02/08/13 11:42	02/11/13 21:41	1
Cadmium	ND		0.10	0.00066	mg/L		02/08/13 11:42	02/11/13 21:41	1
Chromium	ND		0.50	0.0022	mg/L		02/08/13 11:42	02/11/13 21:41	1
Lead	ND		0.50	0.0019	mg/L		02/08/13 11:42	02/11/13 21:41	1
Selenium	ND		0.25	0.0041	mg/L		02/08/13 11:42	02/11/13 21:41	1
Silver	ND		0.50	0.0022	mg/L		02/08/13 11:42	02/11/13 21:41	1

Lab Sample ID: LCS 240-74761/3-A

Matrix: Solid

Analysis Batch: 74877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74761

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added							
Arsenic	2.00		2.10		mg/L		105	50 - 150
Barium	2.00		2.04	J	mg/L		102	50 - 150
Cadmium	0.0500		0.0512	J	mg/L		102	50 - 150
Chromium	0.200		0.201	J	mg/L		100	50 - 150
Lead	0.500		0.524		mg/L		105	50 - 150
Selenium	2.00		2.06		mg/L		103	50 - 150
Silver	0.0500		0.0531	J	mg/L		106	50 - 150

Lab Sample ID: LB 240-74672/1-C LB

Matrix: Solid

Analysis Batch: 74877

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 74761

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.0032	mg/L		02/08/13 11:42	02/11/13 21:35	1
Barium	0.00232	J	10	0.00067	mg/L		02/08/13 11:42	02/11/13 21:35	1
Cadmium	ND		0.10	0.00066	mg/L		02/08/13 11:42	02/11/13 21:35	1
Chromium	ND		0.50	0.0022	mg/L		02/08/13 11:42	02/11/13 21:35	1
Lead	0.0129	J	0.50	0.0019	mg/L		02/08/13 11:42	02/11/13 21:35	1
Selenium	ND		0.25	0.0041	mg/L		02/08/13 11:42	02/11/13 21:35	1
Silver	ND		0.50	0.0022	mg/L		02/08/13 11:42	02/11/13 21:35	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-74762/2-A

Matrix: Solid

Analysis Batch: 75008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		02/08/13 16:00	02/11/13 15:44	1

Lab Sample ID: LCS 240-74762/3-A

Matrix: Solid

Analysis Batch: 75008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74762

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Analyte	Added							
Mercury	0.00500		0.00530		mg/L		106	50 - 150

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 240-74672/1-D LB

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: TCLP

Analysis Batch: 75008

Prep Batch: 74762

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		02/08/13 16:00	02/11/13 15:43	1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 240-74757/1

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 74757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Flashpoint	81.0	79.00		Degrees F		98	97 - 103

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-75032/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 75119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.49	0.097	mg/Kg		02/12/13 11:08	02/12/13 17:02	1

Lab Sample ID: LCS 240-75032/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 75119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Total	2.54	2.37		mg/Kg		93	68 - 123

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-74598/11-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 74651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		30	22	mg/Kg		02/07/13 10:17	02/07/13 14:46	1

Lab Sample ID: LCS 240-74598/12-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 74651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Sulfide	95.0	77.4		mg/Kg		81	70 - 130

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Method: 9045C - pH

Lab Sample ID: LCS 240-74644/2

Matrix: Solid

Analysis Batch: 74644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	%Rec. Limits
corrosivity by pH	5.52	5.550		SU		101	97 - 103

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TestAmerica Canton

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

GC/MS VOA

Leach Batch: 74670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	1311	
LB 240-74670/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 75079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	8260B	74670
LB 240-74670/1-A MB	Method Blank	TCLP	Solid	8260B	74670
LCS 240-75079/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 74672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	1311	

Prep Batch: 75177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	3520C	74672
LCS 240-75177/4-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 240-75177/3-A	Method Blank	Total/NA	Solid	3520C	

Analysis Batch: 75288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	8270C	75177
LCS 240-75177/4-A	Lab Control Sample	Total/NA	Solid	8270C	75177
MB 240-75177/3-A	Method Blank	Total/NA	Solid	8270C	75177

Metals

Leach Batch: 74672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	1311	
LB 240-74672/1-C LB	Method Blank	TCLP	Solid	1311	
LB 240-74672/1-D LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 74761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	3010A	74672
LB 240-74672/1-C LB	Method Blank	TCLP	Solid	3010A	74672
LCS 240-74761/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-74761/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 74762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	7470A	74672
LB 240-74672/1-D LB	Method Blank	TCLP	Solid	7470A	74672
LCS 240-74762/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-74762/2-A	Method Blank	Total/NA	Solid	7470A	

TestAmerica Canton

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
 Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Metals (Continued)

Analysis Batch: 74877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	6010B	74761
LB 240-74672/1-C LB	Method Blank	TCLP	Solid	6010B	74761
LCS 240-74761/3-A	Lab Control Sample	Total/NA	Solid	6010B	74761
MB 240-74761/2-A	Method Blank	Total/NA	Solid	6010B	74761

Analysis Batch: 75008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	TCLP	Solid	7470A	74762
LB 240-74672/1-D LB	Method Blank	TCLP	Solid	7470A	74762
LCS 240-74762/3-A	Lab Control Sample	Total/NA	Solid	7470A	74762
MB 240-74762/2-A	Method Blank	Total/NA	Solid	7470A	74762

General Chemistry

Analysis Batch: 74526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	Moisture	

Prep Batch: 74598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9030B	
LCS 240-74598/12-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 240-74598/11-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 74644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9045C	
LCS 240-74644/2	Lab Control Sample	Total/NA	Solid	9045C	

Analysis Batch: 74651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9034	74598
LCS 240-74598/12-A	Lab Control Sample	Total/NA	Solid	9034	74598
MB 240-74598/11-A	Method Blank	Total/NA	Solid	9034	74598

Analysis Batch: 74757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	1010	
LCS 240-74757/1	Lab Control Sample	Total/NA	Solid	1010	

Analysis Batch: 74841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9095A	

Prep Batch: 75032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9012A	
LCS 240-75032/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 240-75032/1-A	Method Blank	Total/NA	Solid	9012A	

TestAmerica Canton

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

General Chemistry (Continued)

Analysis Batch: 75119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-20721-1	IA07-SS03/W/0.0-1.0	Total/NA	Solid	9012A	75032
LCS 240-75032/2-A	Lab Control Sample	Total/NA	Solid	9012A	75032
MB 240-75032/1-A	Method Blank	Total/NA	Solid	9012A	75032

TestAmerica Canton

Lab Chronicle

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Client Sample ID: IA07-SS03/W/0.0-1.0

Lab Sample ID: 240-20721-1

Date Collected: 02/06/13 09:20

Matrix: Solid

Date Received: 02/06/13 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			74670	02/07/13 17:40	DJ	TAL NC
TCLP	Analysis	8260B		1	75079	02/12/13 19:41	TL	TAL NC
TCLP	Leach	1311			74672	02/07/13 17:40	DJ	TAL NC
TCLP	Prep	3520C			75177	02/13/13 10:38	CC	TAL NC
TCLP	Analysis	8270C		1	75288	02/14/13 12:37	MU	TAL NC
TCLP	Leach	1311			74672	02/07/13 17:40	DJ	TAL NC
TCLP	Prep	3010A			74761	02/08/13 11:42	LM	TAL NC
TCLP	Analysis	6010B		1	74877	02/11/13 22:47	KC	TAL NC
TCLP	Prep	7470A			74762	02/08/13 16:00	LM	TAL NC
TCLP	Analysis	7470A		1	75008	02/11/13 16:06	DH	TAL NC
Total/NA	Analysis	Moisture		1	74526	02/06/13 17:46	AM	TAL NC
Total/NA	Analysis	9045C		1	74644	02/07/13 15:05	AM	TAL NC
Total/NA	Prep	9030B			74598	02/07/13 10:17	JB	TAL NC
Total/NA	Analysis	9034		1	74651	02/07/13 14:46	JB	TAL NC
Total/NA	Analysis	1010		1	74757	02/08/13 12:00	BW	TAL NC
Total/NA	Analysis	9095A		1	74841	02/11/13 07:50	JK	TAL NC
Total/NA	Prep	9012A			75032	02/12/13 11:08	AM	TAL NC
Total/NA	Analysis	9012A		1	75119	02/12/13 17:02	AM	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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TestAmerica Canton

Certification Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-20721-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Wisconsin	State Program	5	999518190	08-31-13

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TestAmerica Canton

Chain of Custody Record

TestAmerica Laboratory location:

Regulatory program:

N. Canton

 DW NPDES RCRA Other **GARAGE WASTE CHARACTERIZATION**
TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Client Project Manager:		Site Contact:		Lab Contact:		COC No:							
Company Name: TRE Environmental Corp		Client Project Manager: KATHIE TUESKIN		Site Contact: MICHAEL RITT		Lab Contact: PATRICK O'Malley		COC No: 55383							
Address: 1382 W. 9th St. Suite 200		Telephone: 216.344.3072		Telephone: 330.416.4804		Telephone:		1 of 2 COCs							
City/State/Zip: CLEVELAND OH 44113		Email: kuteskin@treenvironmental.com		Analysis Turnaround Time (in business days)		Analyses		For lab use only							
Phone: 216.344.3072		Method of Shipment/Carrier: DROP OFF		TAT if different from below		Walk-in client									
Project Name: CPF		Shipping/Tracking No:		<input type="checkbox"/> 3 weeks		<input type="checkbox"/> Lab pickup									
Project Number: 19606043.00				<input checked="" type="checkbox"/> 2 weeks		<input type="checkbox"/> Lab sampling									
PO #				<input checked="" type="checkbox"/> 1 week 3 Business Days		<input type="checkbox"/> Job/SDG No:									
Sample Identification		Sample Date: 7/6/13 Sample Time: 0920		<input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Sediment <input type="checkbox"/> Solid <input type="checkbox"/> Odor <input type="checkbox"/>		HNO3 HCl <input type="checkbox"/> ZnAc <input type="checkbox"/> NaOH <input type="checkbox"/> Urines <input type="checkbox"/> Other: Other		Comments on Sample							
								Inert/Corrosive/Flammable							
								Reactive/Chloride Reactive Sulfide							
								Corrosivity Porous Filters							
								Temperature TELEP SUITE							
								TELEP METALS							
								TESTS							
								Sample Specific Notes / Special Instructions:							
IA07-SS03/w/o.0-1.0															
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements & Comments: Waste Characterization															
Relinquished by: Patricia O'Leary		Company: TRE		Date/Time: 2/16/13/1210		Received by: Edward J. Hill		Company: TRE		Date/Time: 2/16/13 1210					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:					

TAL 0018-1 (04/10)

Client IRC ENV Site Name CDF By: Reed
 Cooler Received on 2-6-13 Opened on 2-6-13 (Signature)
 FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
 TestAmerica Cooler # B82 Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
 IR GUN# 1 (CF -2 °C) Observed Sample Temp. 2.9 °C Corrected Sample Temp. 0.9 °C
 IR GUN# 4G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
 IR GUN# 5G (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
 IR GUN# 8 (CF 0 °C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s)? Yes No
 3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Did all bottles arrive in good condition (Unbroken)? Yes No
 7. Could all bottle labels be reconciled with the COC? Yes No
 8. Were correct bottle(s) used for the test(s) indicated? Yes No
 9. Sufficient quantity received to perform indicated analyses? Yes No
 10. Were sample(s) at the correct pH upon receipt? Yes No NA
 11. Were VOAs on the COC? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a trip blank present in the cooler(s)? Yes No

Multiple
on Back

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO₃; Sulfuric Acid Lot# 051012-H₂SO₄; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____